

IN THE SPECIFICATION

AMENDMENTS TO THE SPECIFICATION

(Amendments are illustrated by showing deletions by ~~striketrough~~ and additions by underlining)

1. On page 1, after the title, "GHRELIN ANALOGS," please insert the following new paragraph:

--This application is a United States national filing under 35 U.S.C. §371 of international (PCT) application No. PCT/US2003/022925, filed July 23, 2003, designating the US, and claiming priority to US provisional application 60/397,834 filed July 23, 2002 and US provisional application 60/427,488 filed November 19, 2002.--

2. Please amend the second paragraph on page 1 to read as follows:

--Release of growth hormone from the pituitary somatotrops can also be controlled by growth hormone-releasing peptides. A hexapeptide, His-D-Trp-Ala-Trp- D-Phe-Lys-amide (GHRP-6) (SEQ ID NO: 1), was found to release growth hormone from somatotrops in a dose-dependent manner in several species, including man (Bowers *et al.*, *Endocrinology* 1984, *114*, 1537-1545). Subsequent chemical studies on GHRP-6 led to the identification of other potent growth-hormone secretagogues such as GHRP-I, GHRP-2 and hexarelin (Cheng *et al.*, *Endocrinology* 1989, *124*, 2791-2798, Bowers, C. Y. Novel GH-Releasing Peptides, in *Molecular and Clinical Advances in Pituitary Disorders*, Ed: Melmed, S.; Endocrine Research and Education, Inc., Los Angeles, CA, USA 1993, 153-157, and Deghenghi *et al.*, *Life Sci.* 1994, *54*, 1321-1328):

GHRP-I	Ala-His-D-(2')-Nal-Ala-Trp-D-Phe-Lys-NH ₂ (<u>SEQ ID NO: 2</u>),
GHRP-2	D-Ala-D-(2')-Nal-Ala-Trp-D-Nal-Lys-NH ₂ (<u>SEQ ID NO: 3</u>),
hexarelin	His-D-2-MeTrp-Ala-Trp-D-Phe-Lys-NH ₂ (<u>SEQ ID NO: 4</u>).--

3. Please amend the third paragraph on page 60 to read as follows:

--The cDNA for human growth hormone secretagogue receptor (hGHS-R1a, or ghrelin receptor) was cloned by Polymerase Chain Reaction (PCR) using human brain RNA as a template (Clontech, Palo Alto, CA), gene specific primers flanking the full-length coding sequence of hGHS-R, (S: 5' - A T G T G G A A C G C G A C G C C C A G C G A A G A G - 3' (SEQ ID NO: 5) and AS: 5' - T C A T G T A T T A A T A C T A G A T T C T G T C C A - 3') (SEQ ID NO: 6), and Advantage 2 PCR Kit (Clontech). The PCR product was cloned into the pCR2.1 vector using

Original TA Cloning Kit (Invitrogen, Carlsbad, CA). The full length human GHS-R was subcloned into the mammalian expression vector pcDNA 3.1 (Invitrogen). The plasmid was transfected into the Chinese hamster ovary cell line, CHO-K1 (American Type Culture Collection, Rockville, MD), by calcium phosphate method (Wigler, M et al., Cell 11, 223, 1977). Single cell clones stably expressing the hGHS-R were obtained by selecting transfected cells grown in cloning rings in RPMI 1640 media supplemented with 10 % fetal bovine serum and 1 mM sodium pyruvate containing 0.8 mg/ml G418 (Gibco, Grand Island, NY).--

4. Please amend page 82 to read as follows:

--(Aib^{2,12}, Glu³(NH-Hexyl), 4Pal⁹, Orn¹⁵)hGhrelin(1-28)-NH₂;
 (Aib^{2,10}, Glu³(NH-Hexyl), A5c¹², Orn¹⁵)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), A6c⁵, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Glu³(NH-Hexyl), A6c⁵, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib^{2,6}, Glu³(NH-Hexyl), A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Act⁶, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), 3Pal⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Dmt⁷, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Thz⁷, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
~~(Aib², Glu³(NH-Hexyl), A5c^{5,12}, Apc¹⁶)hGhrelin(1-28)-NH₂;~~
(Aib², Glu³(NH-Hexyl), A5c^{5,12}, Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib^{2,5}, Glu³(NH-Hexyl), A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), hLeu⁵, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Cha⁵, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib^{2,6}, Glu³(NH-Hexyl), A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Thr⁶, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Abu⁶, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), 4Hyp⁷, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Pip⁷, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Dhp⁷, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), Ktp⁷, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib^{2,8}, Glu³(NH-Hexyl), A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), 2Pal⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
 (Aib², Glu³(NH-Hexyl), 3Pal⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;

(Aib², Glu³(NH-Hexyl), 4Pal⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
(Aib², Glu³(NH-Hexyl), Taz⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
(Aib², Glu³(NH-Hexyl), 2Thi⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
(Aib², Glu³(NH-Hexyl), 2Fua⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂;
(Aib², Glu³(NH-Hexyl), Apc⁹, A5c¹², Apc¹⁶)hGhrelin(1-28)-NH₂--